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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,867 03/25/2004		03/25/2004	Yoshiyuki Ikezaki	503038.108005	6661
29540	29540 7590 08/09/2005		EXAMINER		
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7 TIMES S NEW YOR	•	10036-7311	ART UNIT	PAPER NUMBER	
				2861	
			DATE MAILED: 08/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/808,867	IKEZAKI, YOSHIYUKI					
Office Action Summary	Examiner	Art Unit					
	Anh T.N. Vo	2861					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 23 M	ay 2005.						
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims	•						
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
M. A. L.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:						

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FINAL REJECTION

CLAIM REJECTIONS

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 USC 102 (e) as being anticipated by Shinada et al. (US Pat. 6,643,738) in view of .

Shinada et al. disclose in Figures 1-9 an ink cartridge for use in an ink jet printing apparatus comprising:

- an inkjet head (50) that is driven to eject ink to a recording medium (not shown);
- a carriage (51) mounting the inkjet head (50), the carriage being reciprocally movable in a second direction which is perpendicular to the first direction;
- a movable ink tank (1 or 101 or 201) that is mounted on the carriage (51), the movable tank having an ink storing chamber (60), the ink tank having an ink introducing channel (73 or 74) and an ink discharging opening (4 or 28), ink supplied through the ink introducing channel (73 or 74) being stored in the ink storing chamber (60), the ink stored in the ink storing chamber being discharged through the ink discharging opening (4 or 28) to the inkjet head (50); and
- at least one wall (83) provided in the ink chamber (60), the at least one wall extending vertically to divide the ink chamber (60), in the horizontal direction, into a plurality of rooms

(60a, 60b), the plurality of rooms communicating with each other at upper portion (83a) which are above an upper end of the at least one wall (83), a first room (60b), which is one of the plurality of rooms (60a, 60b), being provided with the ink introducing channel (73 or 74), wherein a horizontal cross-sectional area of at least one second room (60a), which one of the plurality of rooms (60a, 60b) other than the first room (60b), within a predetermined vertical range from the upper end of the at least one wall is equal to or smaller than that of the first room (60b) (Fig. 9).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior arts are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-20 are rejected under 35 USC 103 (a) as being unpatentable over Shinada et al. (US Pat. 6,643,738) in view of Tsukada (JP Pat. 20011328279) and further in view of Erickson (US Pat. 6,164,766).

Shinada et al. disclose the basic features of the claimed invention were stated above but do not disclose a horizontal cross-sectional area of the at least one second room below the predetermined vertical range is greater than the horizontal cross-sectional area thereof within the predetermined vertical range; wherein horizontal cross-sectional areas of the plurality of the rooms other than the first room below the predetermined vertical range are greater than the horizontal cross-sectional areas thereof within the predetermined vertical range; wherein at least one room of the plurality of the rooms other than the first room has a vertical range, in the vicinity of the upper end of the at least one wall, in which the horizontal cross-sectional area is fixed; wherein the at least one second room has a vertical range, below the predetermined

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vertical range, in which the horizontal cross-sectional area increases toward a lower portion thereof; and a stationary ink tank which does not move when the carriage moves; and a tube member that connects the stationary ink tank and the movable ink tank to allow the ink to be supplied from the stationary ink tank to the movable ink tank.

Nevertheless, Tsukada et al. disclose in Figures 1-4 and 8 a liquid container comprising:

- an ink cartridge (194) having a partition (212c) that divides an ink chamber into at least one first room (213a) and at least one second room (213b);

- a horizontal cross-sectional area of the at least one second room (213b) below the predetermined vertical range is greater than the horizontal cross-sectional area thereof within the predetermined vertical range;
- wherein horizontal cross-sectional areas of the plurality of the rooms (213a, 213b) other than the first room (213a) below the predetermined vertical range are greater than the horizontal cross-sectional areas thereof within the predetermined vertical range;
- wherein at least one room of the plurality of the rooms other than the first room has a vertical range, in the vicinity of the upper end of the at least one wall, in which the horizontal cross-sectional area is fixed; and
- wherein the at least one second room (213b) has a vertical range, below the predetermined vertical range, in which the horizontal cross-sectional area increases toward a lower portion thereof.

Furthermore, Erickson discloses in Figures 1-3 an ink refill system comprising a stationary ink tank (14) which does not move when the carriage (4) moves; and a tube member (60) that connects the stationary ink tank (14) and the movable ink tank (12) to allow the ink to be supplied from the stationary ink tank (14) to the movable ink tank (12).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to incorporate the teaching of Tsukada et al. and Erickson in the Shinada

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et al. ink jet printing apparatus for the purpose of supplying ink to the ink cartridge from the stationary ink tank with a negative pressure condition.

Response to Applicant's Arguments

Applicant argues that Shinada reference discloses in Figure 9 and in Column 11, line 34-42, a communication hole 83a located at the bottom portion of the partition wall 83 while the claimed plurality of rooms of the present invention communicate with each other at an upper portion which is above an upper end of the at least one wall. The argument is of not persuasive because the bottom and the top of the claimed chamber are not clearly recited in the rejected claims so that the communication hole cannot be accurately defined. The communication hole (83a) as shown in Figure 9 of Shinada is located at the upper of the partitioned wall (83) when it is looked at from the opposite wall (ink hole 73). Thus, the claimed communication hole remains being anticipated by the communication hole (83a) of Shinada.

CONCLUSION

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo. whose telephone number is (571) 272-2262.

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The examiner can normally be reached on Tuesday to Friday from 9:00 A.M.to 7:00

P.M..

The fax number of this Group 2800 is (571) 273-8300.

PRIMARY EXAMINER

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August 5, 2005